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(71)Applicant : W R GRACE & CO

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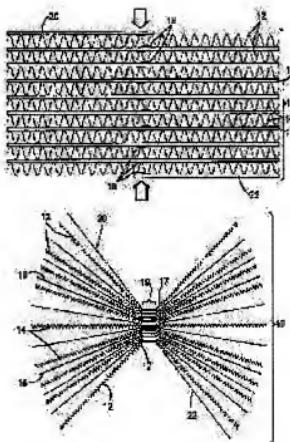
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(54) REINFORCED CONVERTER BODY

(57)Abstract:

PURPOSE: To improve heat resistant durability by forming multicellular cores formed of S-wound stacks of alternate corrugated and flat thin metal strips of the thin metal strips of a first alloy and the thin metal strips of a second alloy having the yield strength larger than the yield strength thereof.

CONSTITUTION: A bundle 10 of the thin metal strips is formed by alternately disposing corrugated thin metal strips 12 and flat thin metal strips 14. The flat thin metal strips 16 of every third place are formed of the strong alloy, for example, a chromium/nickel alloy. The flat thin metal strips 16 preferably have the same thickness as the thicknesses of the corrugated thin metal strips 12 and the remaining flat thin metal strips 14. Narrow width layers 18 of a brazing paste are disposed between each of the thin metal strips 12, 14 and 16 and near the contact parts thereof. The bundle 10 is perfected by partial flat sheets 20 and 22 in the apex and bottom respectively thereof. The narrow width layers 18 constitute the central



portions and are compressed to flatten the corrugations of the corrugated thin metal strips 12 in the sections 19.